

On the genus of a maximal curve

F. Torres (Campinas)

I plan to report results concerning the genus of curves that attain the Hasse-Weil bound on the number of rational points based on a joint paper with G. Korchmáros. The central role in our approach is Halphen's theorem applied to a natural linear series on such curves. In addition, connection with extremal Castelnuovo's curves will be discussed